

What is claimed is:

1. A portable ice rink surface building and resurfacing device, comprising:
  - a chassis;
  - a water tank mounted on said chassis;
  - 5 a heating mechanism mounted in heat exchange relation to the water tank;
  - the water tank being adapted to receive snow to be melted; and
  - a fluid disperser connected to said tank for distributing a layer of water onto an ice rink surface.
- 10 2. The device according to claim 1 wherein the fluid disperser further comprises a controller for regulating an amount of water being dispersed.
3. The device according to claim 1 wherein the chassis comprises a long flat-plate curved up at a forward end to provide a toboggan-like shape  
15 to enable skidding of the device over a snow covered surface.
4. The device according to claim 1 wherein the heating mechanism is a heating chamber within the water tank.
5. The device according to claim 1 wherein the heating mechanism further comprises a first longitudinal member at the bottom of the water  
20 tank, said first elongated member being below a water line when in use; a vertical elongated member extending from said first elongated member; a second elongated member extending from said vertical elongated member, said second elongated member being parallel to the first elongated member and above the water line; said second  
25 elongated member having a plurality of perforation for releasing flue gas.

6. The device according to claim 5, wherein heat of the flue gas contacts the snow received in the water tank and contributes to the melting of the snow.
- 5 7. The device according to claim 1 wherein a hopper is used to receive snow.
8. The device according to claim 7 wherein there is a filtering device between the hopper and the water tank for removing large solids.
9. The invention according to claim 1 wherein there is a filtering device between the water tank and fluid dispersing means for removing solids.
- 10 10. The device according to claim 1 wherein the fluid disperser further comprising a fluid dispensing bar, said fluid dispensing bar having plurality of holes for distributing thin layer of water on horizontal surfaces.
11. The device according to claim 1 wherein the fluid disperser further comprising a fluid dispensing bar, said fluid dispensing bar having a telescopic structure.
- 15 12. The device according to claim 1 wherein the fluid dispenser is a removable bar.
13. The device according to claim 1 wherein the bottom of the chassis is located at a height lower than axles of wheels.
- 20 14. A method of building an ice surface for a rink or resurfacing a rink comprising the steps of:
- i) receiving snow in a portable rink building device; said device comprising:
- 25 a chassis;
- a water tank mounted on said chassis;

a heating mechanism mounted in heat exchange relation to the water tank;

the water tank being adapted to receive snow to be melted; and

5 a fluid dispersing means connected to said tank for distributing a layer of water onto an ice rink surface;

ii) melting the snow in said device; and

iii) dispersing the water from melted snow onto the ice surface.

15. The method according to claim 14 wherein the rink is an outdoor rink.

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